

## Abstract

A process for coating a perforated substrate with a gel (e.g. a polymerised acrylate hydrogel or a xerogel) without substantial occlusion of the perforations comprises (i) forming a layer of a liquid pregel mixture, comprising one or more monomers, on a web coated with a silicone, polyethylene, Teflon (R) or other coating having a surface energy less than the surface energy of the liquid pregel mixture. Preferably at least part of the curing takes place while the liquid pregel mixture is in contact with both the perforated substrate and the web. The process is especially applicable to the manufacture of attachment tabs for wigs and toupees, wound dressings, patches for transdermal drug delivery, therapeutic patches or biomedical electrodes.